

68212

The Use of Radioactive Isotopes of Arsenic and
Niobium for the Investigation of Metallurgical
Reactions

S/032/60/026/01/023/052
B010/B001

arsenic concentration in iron and thus it exists in the slag
as cation As^{3+} and not as As_2O_3 molecule. Due to the low value⁴
of L_{As} , arsenic cannot be removed from the molten iron with
the slag. There are 2 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii (Central Scientific Research Institute of Iron
Metallurgy)

Card 3/3

S/137/62/000/005/009/150
A006/A101

AUTHORS: Sazonov, M. L., Shvartsman, L. A.

TITLE: Distribution of elements of the fifth group of a periodic system between iron and ferrous slag

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 14-15, abstract 5A83 (V sb. "Fiz-khim. osnovy proiz-va stali", Moscow, AN SSSR, 1961, 68-76)

TEXT: The method of radioactive isotopes was used to study the distribution of Sb, As and Nb between Fe and Fe-slag. Sb^{124} , As^{76} and Nb^{95} were used. Distribution of Sb and As was studied by taking off samples. Coefficient of distribution L was determined from the frequency recordings of slag and Fe batches. The experiments were carried out at 1,540 - 1,750°C. The temperature was measured with a microoptical pyrometer. To reveal the dependence of L on the concentration of the dissolved substance, experiments were made at 1,600°C and variable content of Sb and As. The distribution of Nb was studied by the method of consecutive saturation (RZhMet, 1957, no. 5, 7519) $lg L_{Sb} = 16,200/4.575 T + 2.80/4.575$ (for 1,540 - 1,750°C temperatures); $lg L_{As} = -26,500/$

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S/137/62/000/005/009/150
A006/A101.

Distribution of elements of the fifth group ...

$4.575 T + 4.80/4.575$; $\lg L_{Nb} = 70,500/4.575 T - 14.55/4.575$ (for 1,535 - 1,740°C). At 1,600°C $L_{As} \approx 0.01$ and $L_{Sb} \approx 0.05$ and do not depend on As and Sb concentration in Fe. It is assumed that As and Sb are present in liquid Fe in the form of ions. The value of L_{Nb} is considerably higher (about 10^4). From the temperature dependence of L the authors calculated oxidation heats of elements in liquid Fe and changes of entropy. It is shown that Sb and As oxidation are accompanied by heat absorption (16,200 and 26,500 cal/g-atom respectively) and increased entropy (2.8 and 4.8 cal/degree-g-atom respectively) Nb oxidation is accompanied by heat liberation and decreased entropy (70,500 cal/g-atom and 14.55 cal/degree-g-atom respectively). A comparison of the results obtained with literature data made it possible to assert that Sb and As are present in Fe in trivalent state, and Nb in pentavalent state. Low L_{Sb} and L_{As} values are connected with the fact that Sb and As are forming, during oxidation, low stable trioxides with weakly marked acid-basic properties.

A. Panov

[Abstracter's note: Complete translation]

Card 2/2

SAZONOV, M.L. (Moskva); SHALIMOV, A.G. (Moskva)

Effect of the slag and metal phase constitution of steel desulfuration
process by lime-alumina slag. Izv. AN SSSR. Otd. tekhn. nauk. Met. i gor.
delo. no.1:33-40 Ja-F '63. (MIA 16:3)
(Desulfuration) (Slag--Analysis)

SHALIMOV, A.G.; SAZONOV, M.L.

Method for the study of the equilibrium in the system metal - slag
with the aid of radioactive isotopes. Zav.lab. 29 no.4:454-456
'63. (MIRA 16:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii
im. F.P.Bardina.
(Metals) (Slag) (Radioisotopes--Industrial applications)

ZHUKHOVITSKIY, A.A.; SAZONOV, M.L.; SHLYAKHOV, A.F.; KARYMOVA, A.I.

Development chromatography without a gas carrier. Zav. lab. 31
no.9:1048-1052 '65. (MIRA 18:10)

SAZONOV, N., inzh.

The Kulibin of our plant. Izobr. i rats. no.9:22 S '61.
(MIRA 14:8)

1. Otdel truda i zarabotnoy platy Stalinskogo alyuminiyevogo
zavoda, g. Stalinsk.
(Stalinsk--Aluminum industry)

SAZONOV, N.

Sixth Congress of the Carpatho-Balkan Geological Association.
Geol. nefiti i gaza 7 no.12:50-51 D '63. (MIRA 17:8)

SAZONOV, Nikolay Alekseyevich

DECEASED

1964

Electrification of Agriculture

1903 - c. '63

SAZONOV, N.F., inzh.; SEMENOV, G.A., inzh.

Reinforcement of slopes of earth structures. Energ.stroi. no.5:
124-129 '58. (MIRA 12:5)

1. Nachal'nik otдела OISMK (for Sazonov). 2. Starshiy inzhener
OISMK (for Semenov).
(Volga Hydroelectric Power Stations--Earthwork)

MIKHAYLOV, B.V., kand.tekhn.nauk; SAZONOV, N.F., inzh.

Operating procedures for concrete constructions. Energ.stroi.
no.5:165-172 '58. (MIRA 12:5)

1. Nachal'nik OISMK (for Mikhaylov). 2. Nachal'nik otdeleniya OISMK
(for Sazonov).
(Volga Hydroelectric Power Station--Concrete construction)

SAZONOV, N.I.

Elektroavtomatika potochnykh linii. Moskva, IZIN Gosplana SSSR, 1945. 48 p.

Electro-automatic performance of assembly lines.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SAZONOV, N. I.

Sazonov, N. I. "The latest achievements in spot welding", Sbornik sokr. dokladov
Srat. gor. nauch.-tekhn. konf-tsii predpriyatiy mashinostroit. i metalloobrabot.
prom-sti, Saratov, 1949, p. 88-100.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

SAZONOV, N. I.

"The Article of A. A. Blitshteyn 'Characteristics of Useful Power and Efficiency of Resistance Welding Machines' Avtogen. Delo. No. 10, 1949. Engr., -cl949-.

SAZONOV, N. I., Engr

PA 167T80

USSR/Metals - Welding Equipment

Sep 50

"Experiment on Application of Asynchronous Ignitron Interrupters," N. I. Sazonov, Engr

"Avtogen Delo" No 9, pp 22-25

Discusses possibility of using asynchronous ignitron interrupters in spot welding machines. First interrupters have been used satisfactorily in plant for 2 years, in spot welding machines of 40, 200, and 350 kva for aluminum alloys and in 25-kva machine for stainless steel. Application of asynchronous ignitron interrupters simplified installation and reduced

167T80

USSR/Metals - Welding Equipment
(Contd)

Sep 50

operating costs of welding equipment, and eliminated failures occurring in complicated systems of synchronous interrupters.

167T80

SAZONOV, N.I., knad.tekhn.nauk

District boiler rooms operated on gas fuel or district steam-
gas thermal electric plants? Gor. khoz. Mosk. 36 no.9:27-30 S '62.
(MIRA 15:10)

1. Leningradskiy nauchno-issledovatel'skiy institut Akademii
kommunal'nogo khozyaystva im. K.D.Pamfilova.
(Moscow--Heating from central stations)

21

The oxygen problem (in fuel gasification). N. I. Saizov, V. V. Pomerantzev and S. N. Suirkin. *Khimiya* 6, 665-73 (1934).—German installations for gasification of brown coal with steam, with O_2 at atm. pressure and under pressure are discussed with a view to utilizing soft-coal deposits in the vicinity of Moscow. C. H.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

2/

Heat and gas calculations underlying the project of underground gasification (of coal). V. V. Pomerantsev, N. I. Sazonov and S. N. Sukhin. *Podzemnaya Gazifikatsiya Uglei* 1935, No. 1, 8-15. A discussion of gas

4.5-9% H₂ and approx 0.2% CH₄. It had a heat value of about 1000 Cals. S. L. Madorsky

AS 5-51.4 METALLURGICAL LITERATURE CLASSIFICATION

PROCESS AND PROPERTIES INDEX																									
1ST AND 2ND ORDERS													1ST AND 2ND ORDERS												
ca 21 Summary of the first experimental results of a subterranean gasification of coals. N. I. Sazonov. <i>Khim. Tverdogo Topliva</i> 6, 17-28 (1935).—The generation of gas by injecting air into subterranean coal deposits with subsequent ignition so as to produce gas suitable for technical purposes is described. The gases obtained were high in N₂ and low in heating value. Details of expts. are analyzed. A. A. Hochlung.																									
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																									
1ST AND 2ND ORDERS													1ST AND 2ND ORDERS												
1ST AND 2ND ORDERS													1ST AND 2ND ORDERS												

Subterranean gasification of coal. N. I. Sagunin.
Khim. Tverdogo Topliva 6, No. 1-9 (1935); cf. C. A. 29,
 7614-5.—Further expts. are reported on the generation
 of gas in coal mines. The increase of the concn. of O₂ to
 24% yields a gas of 1350 cal./cu. m. Alternate (20
 min. each) injection of air and steam on a low-grade coal
 at the Litschansk exptl. station yielded gas low in N
 (2.8-11%). The expts. at Krutovka on the Intake coal
 vein yielded a producer gas of 1300 cal./cu. m. The amt. of
 air injected and the removal of the gas produced
 was regulated for the first time. Details of expts. are
 given. A. A. Poldgorny.

SAZONOV, N. I.

"Gas Supply in Foreign Countries"

(Theory and Practice of Gas Combustion; Transactions of a Scientific and
Technical Meeting) Leningrad, Gostoptekhizdat, 1958. 343 p.

KORNEYEV, M.I., kand.tekhn.nauk; ~~SAZONOV, N.I.,~~ kand.tekhn.nauk;
LOZHKIN, A.N., doktor tekhn.nauk, ~~red.~~; GONCHAROV, N.G.,
tekhn.red.

[Steam-gas power plants and prospects for their adoption
into Soviet power engineering] Parogazovye energoustanovki
i perspektivy ikh vnedreniya v energetiku SSSR. Pod red. A.N.
Lozhkina. Moskva, Gos.nauchno-tekhn.komitet Soveta Ministrov
SSSR, 1959. 45 p. (MIRA 12:12)
(Electric power plants)

SAZONOV, N.I., kand.tekhn.nauk, red.; ZABRODINA, A.A., tekhn.red.

[Problems concerning the use of gas in heat power plants]
Problemy ispol'zovaniia gaza v teplosilovykh ustanovkakh.
Moskva, Gos.energ.isd-vo, 1959. 169 p. (MIRA 12:7)
(Gas as fuel) (Electric power plants)

SAZONOV, N.I., nauchnyy red.; SEGAL', Z.G., vedushchiy red.; YASHCHUR-ZHINSKAYA, A.B., tekhn.red.

[Utilization of gas in steam power plants] Ispol'zovanie gaza v teplosilovykh ustanovkakh; trudy nauchno-tekhnicheskogo soveshchaniia. Leningrad, Gos.nauchno-tekhn.izd-vo nef. i gornotoplivnoi lit-ry. Leningr.otd-nie. No.2. 1959. 203 p.
(MIRA 12:12)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Tsentral'noye pravleniye.
(Gas, Natural) (Steam engineering)

SAZONOV, N.I., kand.tekhn.nauk

Seven-year plan for the expansion of centralized heating in
Moscow. Gor.khoz.Mosk. 34 no.5:21-26 My '60.
(MIRA 13:7)

1. Leningradskiy nauchno-issledovatel'skiy institut Akademii
kommunal'nogo khozyaystva im. K.D.Pamfilova.
(Moscow--Heating from central stations)

NEZHDANOV, S.A., inzh.; SAZONOV, N.I., kand.tekhn.nauk

Soviet mobile power plants. Elek.sta.33 no.1:68-70 Ja '62.
(MIRA 15:3)
(Electric power plants)

KOROVINA, N.N.; MOLODTSOVA, A.N.; CHIKHACHEV, M.S.; MAKAROV, M.S.,
ted.; SAZONOV, N.M., red.

[Multiple-counter Askot-class 170 adding machine] Mnogo-
schetchikovaia summirulushchaya mashina--avtomat Askota
klassa 170. Moskva, Statistika, 1964. 135 p.
(MIRA 18:1)

AKULINICHEV, I.T.; ANDREYEV, L.F.; BAYEVSKIY, R.M.; BAYKOV, A.Ye.; BUYLOV, G.G.
GAZENKO, O.G.; GRYUNTAL', R.G.; ZAZYKIN, K.P.; KLIMENTOV, Yu.F.;
MAKSIMOV, D.G.; MERKUSHKIN, Yu.G.; MONAKHOV, A.V.; PETROV, A.P.;
RYABCHENKOV, A.D.; SAZONOV, N.P.; UTYAMYSHEV, R.I.; FREYDEL', V.R.;
KHIL'KEVICH, B.G.; SHADRINTSEV, I.S.; SHEVANDINA, S.B.; ESAULOV,
N.G.; YAZDOVSKIY, V.I.

Method and means of medical and biological studies in a space
flight. Probl. kosm. biol. 3:130-144 '64. (MIRA 17:6)

SAZONOV, N.T.

Tectonic structure of the Zhiguli and Borla zones of dislocation.
Trudy VNIGNI no.2:19-39 '51. (MLRA 10:4)
(Zhiguli Mountains--Geology, Structural)
(Borla Valley--Geology, Structural)

SAZONOV, N.T.

Regarding little known lower Cretaceous ammonites. Biul. MOIP.
Otd. geol. 26 no. 5: 57-63 '51. (MIRA 11:5)
(Ammonoidea)

GTRSP, No. 45

Sazonov, N.T. (All-Union Scientific Research Institute in Geological Prospecting for Oil,
Moscow Branch). Mineralogical investigation of the Jurassic and Lower Cretaceous deposits
in the Ryazan' and Penza regions and in the Mordov A.S.S.R., 145-7

Akademiya Nauk, S.S.S.R., Doklady, vol. 79, No. 1 151

SAZONOV, N. T.

"Tectonic Structure of Eastern Part of Ryazanskaya Oblast and Penzenskaya Oblast and Mordovskaya (Mordvinian) ASSR"
Tr. Mosk. Fil. Vses. Neft. Geol.-Razved. In-ta, Stratigrafiya i Tektonika
Russkoy Platformy, Voprosy Geokhimii i Regional'noy Geologii, 1953 No. 3, 68-84

The territory of the Oka-Volga water divided is subdivided into positive and negative elements: I. Structures of the first order (Voronezh and Tokmorsk crystalline anticlines)/ II. Structures of the second order (Oka-Tsninsk, Kerensk-Chembarak, Zubovo-Polyansk, Sursk-Moksha and Alatyr terraces and Bua-Karsun and Bola zone of upheavals).
(RZhGeol, No 3, 1954)

SO: W-31187, 8 Mar 55

SAZONOV, N.T.

Stratigraphy of Jurassic and Lower Cretaceous deposits of the
Russian Platform, Dnieper-Donets Lowland, and the Caspian Depression.
Biol.MOIP. Otd.geol. 28 no.5:71-100 '53. (MLRA 6:12)

(Geology, Stratigraphic)

SAZONOV, N.T.

"Dictionary on petroleum geology." Reviewed by N.T.Sazonov.
Bibl.MOIP.Otd.geol. 29 no.1:91-93 Ja-F '54. (MLRA 7:4)
(Petroleum--Geology--Dictionaries)

SAZONOV, N.T.

Stratigraphy of Jurassic and Lower Cretaceous deposits of the
Russian Platform. Biul.MOIP.Otd.geol. 29 no.3:89-93 My-Je '54.
(MLRA 7:8)

(Russian Platform--Geology, Stratigraphic) (Geology, Stra-
tigraphic--Russian Platform)

SAZONOV, N. T.

SAZONOV, N. T.: "Jurassic deposits of the central portions of the Russian platform"
Moscow, 1955. Min Petroleum Industry USSR. All-Union Sci Res Geological
Prospecting Petroleum Inst (VNIGNI). (Dissertations for the degree of Can-
didate of Geological-Mineralogical Sciences.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow

SAZONOV, N.T.

New data on the systematics of upper Jurassic ammonites. Biul.
MOIP. Otd.geol.30 no.4:117 J1-Ag'55. (MIRA 8:12)
(Ammonoidea)

VYALOVA, R.I., redaktor; DROBYSHEV, D.V., redaktor; KOITYPIN, S.N., redaktor;
MOISEYENKO, V.S., redaktor; SAZONOV, N.T., redaktor; SOKOLOVA, Ye.I.,
redaktor; YASHCHURZHINSKAYA, A.B., vedushchiy redaktor; GENNAD'YEV,
I.M., tekhnicheskii redaktor

[Proceedings of the All-Union Conference on the Development of a
Uniform System of Stratigraphy of Mesozoic Deposits of the Russian
Platform] Trudy Vsesoyuznogo soveshchaniya po razrabotke unifitsirovan-
noy skhemy stratigrafii mezozoyskikh otlozheniy Russkoy platformy.
Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry,
Leningradskoe otd-nie, 1956. 383 p. (MLRA 9:12)

1. Vsesoyuznoye soveshchaniye po razrabotke unifitsirovannoy skhemy
stratigrafii mezozoiskikh otlozhenii Russkoy platformy, 1954.
(Russian Platform--Geology, Stratigraphic)

SAZONOV, N. T.

15-1957-7-8975

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 16 (USSR)

AUTHOR: Sazonov, N. T.

TITLE: Unified Stratigraphic Scheme for Jurassic Rocks of
the Russian Platform (Unifitsirovannaya skhema
stratigrafii yurskikh otlozheniy Russkoy platformy)

PERIODICAL: V sb.: Tr. Vses. soveshchaniya po razrabotke unifi-
tsir. skemy stratigr. mezozoyskikh otlozheniy Rus.
platformy, Leningrad, 1956, pp 19-26

ABSTRACT: A unified scheme of the stratigraphy of the Jurassic
rocks of the Russian platform is proposed, resulting
from the generalized work of Soviet geologists. In
the Dnepr-Donets basin continental rocks of the Lower
Jurassic with plant remains and limestones are united
into the Novorayskiy series, corresponding to the
Lower and Middle Lias of Western Europe. Sandy con-
glomerates of the Gur'yevskiy series in the Emba re-
gion and the Ural-Volga interstream area are referred
to the Lower Jurassic. Toarcian rocks are present

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15-1957-7-8975

Unified Stratigraphic Scheme for Jurassic Rocks of the Russian Platform (Cont.)

only in the Dnepr-Donets basin. Two zones are distinguished in the Lower Toarcian--Hildoceras serpentinum and H. bifrons. Two zones are also differentiated in the Upper Toarcian--Lytoceras jurensis and Hammatoceras insigne. The Lower Aalenian, referred by the authors to the Middle Jurassic, corresponds to the Leioceras opalinum zone; the Upper Aalenian correlates with the zone of Ludwigia murchisonae (the lower half of the Cherkasskiy series and, presumably, the Burkhanovskiy series). In the lower Volga region traces of Aalenian rocks were noted on the Don-Medveditsa and Ilovinskaya uplifts. In the Donetsk basin the Bajocian is represented by the Witchellia rossica zone; this is also found in the Stalingrad and Saratov-Syzran regions along the Volga. The sandy clay series of southern Emba is referred to the Lower Bajocian and the Aalenian. The Upper Bajocian is extensive in the Middle Volga region where three zones are differentiated--Strenoceras niortense, Carantia garanti, and Parkinsonia doneziana. In

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15-1957-7-8975

Unified Stratigraphic Scheme for Jurassic Rocks of the Russian Platform (Cont.)

the Donets basin the Upper Bajocian embraces the lower part of the Podluzhny series; in southern Emba the Lower Coal-bearing series (called Zholdybayevskiy) corresponds to this substage. The Bathonian is characterized in its lower part by Pseudocoscroceras michalskii Boriss. A supplemental and inadequately founded division is the zone of Pseudocoscroceras margotae. In southern Emba the lower part of the Lingula series is referred to the Bajocian on the evidence of microflora, but the upper part of it is placed in the Bathonian; its analogue on the Ilek River is the Dzhenshke series. Continental beds in the central part of the Russian platform are possibly Upper Bathonian. Plant fossils are found in them at Samarskaya Luka; in the Emba region the Upper Coal-bearing series correlates with the Upper Bathonian. In addition, the Lower Callovian is differentiated into the zones of Arcticoceras ishmae; Cadoceras elatmae, and Kepplerites calloviensis; the Middle Callovian into the Kepplerites enodatum,

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15-1957-7-8975

Unified Stratigraphic Scheme for Jurassic Rocks of the Russian Platform (Cont.)

Cadoceras milashevici, Cosmoceras jason, and Erymnoceras coronatum zones; the Upper Callovian into the zones of Quenstedticeras keyserlingi, Peltoceras ex gr. athleta, and Quenstedticeras lamberti; the Lower Oxfordian into the zones of Cardioceras praecordatum (with mixed fauna of Upper Callovian and Lower Oxfordian, the latter predominating) and Cardioceras cordatum; the Middle Oxfordian into the zones of Cardioceras zenaidae Llov., C. ilovaiskii M. Sok., and Martelliceras martelli Oppel.; the Upper Oxfordian into the zones Cardioceras alternana and C. novosselkensis; the Lower Kimmeridgian into the zones of Desmosphinctes mniovnikensis Nik, Rasenia uralensis Orb., and Cardioceras kitchini Salf., and the Upper Kimmeridgian into the zones of Aulacostephanus pseudomutabilis and Exogyra virgula. It is proposed to distinguish the Vetlyanskiy stage between the zones of E. virgula and Zaraiskites scythicus (Lower Volga stage), which at times have been correlated with the Lower Tithonian of southwestern

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15-1957-7-8975
Unified Stratigraphic Scheme for Jurassic Rocks of the Russian Platform (Cont.)

Germany, the Lower Portlandian of France, and some parts of the Kimmeridgian clays of England. Three zones are differentiated in this series--Waagenia beckeri, Ilovaiskya sokolovi, and Ilovaiskya pseudoscythica. Three substages are separated in the Lower Volga stage: the lower, with Dorsoplanites panderi, Zaraiskites scythicus var. diprosora, and Z. scythicus; the middle, with Virgatites virgatus; and the upper, with Epivirgatites nikitini. The Upper Volga stage is also divided into three substages: the lower, Kaschpurites fulgens; the middle, consisting of two zones--Craspedites okensis and Garniericeras catenulatum; and the upper, also with two zones--Garniericeras subclypeiforme and Craspedites kaschpuricus.

Card 5/5

V. V. Drushchits

SAZONOV, A.

SEMIKHATQVA, S.; SAZONOV, A.

Conference of the All-Union Petroleum Scientific-Research Institute
for Geological Survey on the stratigraphy of the lower part of the
lower Carboniferous. Geol.nefti 1 no.10:69-71 0 '57. (MIRA 10:10)
(Geology, Stratigraphic)

SAZONOV, N.T.

Jurassic sediments. Trudy VNIGNI no. 10:68-85 '58.

(MIRA 14:5)

(Russian Platform—Geology, Stratigraphic)

AUTHOR: Sazonov, N.T.

SOV/5-33-1-6/25

TITLE: The Geological History of the Jurassic Period in the Central Regions of The Russian Plateau (Geologicheskaya istoriya yurskogo perioda v tsentral'nykh oblastyakh Russkoy platformy)

PERIODICAL: Byulleten' Moskovskogo obshchestva isspytateley prirody, Otdel geologicheskii, 1958, Vol 33, Nr 1, pp 43-66 (USSR)

ABSTRACT: The author sums up new data on the occurrence, structure and composition of Jurassic deposits in the central oblasts of the Russian Plateau. This data was obtained during prospecting and exploring drilling operations conducted from 1946 to 1956. The author prepared paleographic maps and tables of summary magnitudes (tables 1 and 2) which retrace the history of the development of the Jurassic Period on the Russian Plateau and in the adjacent Caspian and Dnepr-Donets depressions. The author gives the list of geologists whose works are the basis of this article: A.D. Arkhangel'skiy, V.V. Belousov, A.P. Karpinskiy, A.N. Mazarevich, S.N. Nikitin,

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SOV/5-33-1-6/25

The Geological History of the Jurassic Period in the Central Regions of the Russian Plateau

A.P. Pavlov, A.M. Rozanov, A.B. Ronov, H.M. Strakhov, N.T. Sazonov, G.Ye. Ayzenshtadt, V.S. Malyavkina, Ye.N. Permyakov, S.K. Nechitaylo, D.L. Frukht, A.I. Shibalin and Lewinski.
There are 6 maps, 2 tables, 1 scheme, 3 profiles and 19 references, 18 of which are Soviet and 1 French.

Card 2/2

SAZONOV, N.T.

Conference on the stratigraphy of Mesozoic sediments in the Russian Platform. Sov. geol. 2 no.6:145-150 Je '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (VNIGNI).
(Russian Platform--Geology, Stratigraphic)

SAZONOV, N. T.

SOV/9-59-7-11/15

3(5)

AUTHOR: Sazonov, N.

TITLE: On the All-Union Conference on Specification of a Unified Stratigraphic System of Mesozoic Deposits in the Russian Plateau

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 7, pp 60 - 63 (USSR)

ABSTRACT: The All-Union Conference for setting-up a specified unified stratigraphic system of Mesozoic deposits in the Russian plateau took place from December 8th to 13th, 1958 at Moscow. It was attended by 172 delegates from different cities and organizations. The Conference heard 9 reports in plenary sessions and 32 reports in sectional sessions. They were delivered by Ye.I. Sokolova (VNIGRI) on projected subdivision of the Triassic system; N.T. Sazonov (VNIGRI) on the Jurassic system; I.G. Sazonova on the lower section of the Cretaceous systems; S.N. Koltypin (VNIGRI) and D.P. Naydin (MGU) on the upper section of the

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SOV/9-59-7-13/15

On the All-Union Conference on Specification of a Unified Stratigraphic System of Mesozoic Deposits in the Russian Plateau

Cretaceous system. Reports were also delivered by M.M. Moskvina, A.V. Fursenko, I.M. Yammichenko, O.K. Kaptarenko-Chernousova, G.Ya. Krymgol'ts and others. The Conference approved the subdivision of the above-mentioned systems according to the submitted materials.

Card 2/2

SAZONOV, N. T.

Recent data on Oxfordian and Kimmeridgian ammonites. Trudy
VNIGNI no.16:133-173 '60. (MIRA 13:6)
(Ammonoidea)

SAZONOV, N.T.

Project for a unified stratigraphic scale of the Jurassic in the
Russian Platform. Trudy VNIGNI no.29:5-47 vol. 2, '61.
(MIRA 14:7)
(Russian Platform--Geology, Stratigraphic)

SAZONOV, N.T.

Stratigraphy of Jurassic sediments in the European part of the
U.S.S.R. within the boundaries of the Russian Platform. Sov.
geol. 5 no.7:80-93 J1 '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut.
(Russian Platform--Geology, Stratigraphic)

NALIVKIN, V.D.; RONOY, A.B.; KHAIN, V.Ye.; OKOLOV, B.S.; DOMRACHEV,
S.M.; TIKHIY, V.N.; POZNER, V.M.; FORSH, N.N.; LYUTKEVICH,
Ye.M.; SLAVIN, V.I.; SAZONOV, N.T.; SAZONOVA, I.G.;
SHUTSKAYA, Ye.K.; KRASNOV, I.I.; KALENOVA, G.N.; VINOGRADOV,
A.P., glav. red.;

[History of the geological development of the Russian Plat-
form and its margins] Istoriiia geologicheskogo razvitiia
Russkoi platformy i ee obramleniia. Moskva, Nedra, 1964.
251 p. ____ [Maps] Karty. 981. (MIRA 18:4)

SAZONOV, N.T.

Activities of the Mediterranean Mesozoic Committee on Jurassic
nomenclature. Sov. geol. 7 no.11:145-147 N '64. (MIRA 18:2)

SAZONOV, N. T. (Moscow)

Report on a meeting of the Mediterranean Mesozoic Committee:
May 1-3, 1964. Spis Bulg geol druzh 25 n. 3:310-312 '64.

1. Member of the International Mediterranean Committee.

KOTOVA, E.A.; SAZONOV, N.T.

Colloquium on the nomenclature of Jurassic system. Sov. geol.
8 no.6:169-170 Je '65. (MIRA 18:8)

SAZONOV, N.V.

Mesozoic sediments in the southern part of the Pechora Depression. Trudy VNIIGRI no.133:272-279 '59. (MIRA 13:1)
(Pechora Valley--Geology, Stratigraphic)

KROPACHEVA, A.A.; SAZONOV, N.V.

Derivatives of ethyleneimine. Part 3: Diethyleneimides of
pyrimidylamidophosphoric acids. Zhur. ob. khim. 31 no. 11:3601-
3605 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Phosphoramidic acid)

VASSERMAN, B.Ya.; SAZONOV, N.V.

Paralleling Subdomanik deposits of the southern Timan and the Volga-Ural region. Dokl. AN SSSR 140 no.2:427-429 S '61. (MIRA 14:9)

1. Predstavleno akademikom D.V.Nalivkinym.
(Timan Ridge--Geology, Stratigraphic)
(Volga-Ural region--Geology, Stratigraphic)

KROPACHEVA, A.A.; DERKACH, G.I.; ZHURAVLEVA, L.P.; SAZONOV, N.V.;
KIRSANOV, A.V.

N-diethylenediamidophosphonyl-N-arylurea. Zhur.ob.khim. 32
no.5:1540-1542 My '62. (MIRA 15:5)
(Urea)

SAZONOV, N.V., PARSHINA, V.A.

Ethylenimine derivatives of substituted phosphoric and thiophosphoric acids and their biological properties.

Khimiya i Primeneniye Fosfororganicheskikh Soedineniy (Chemistry and application of organophosphorus compounds) A. YE. ARBUZOV, Ed.
Publ. by Kazan Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

KROPACHEVA, A.A.; SAZONOV, N.V.; SERGIYEVSKAYA, S.I.

Derivatives of ethylenimine. Part 4: Diethylenimides
of pyrimidine-2-aminophosphoric acids. Zhur.ob.khim.
32 no.11:3796-3799 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Pyrimidine) (Phosphoric acid) (Aziridine)

ANOSHIN, V.A.; VASSERMAN, B. Ya.; SAZONOV, N.V.

New data on the oil and gas potentials of carbonate sediments
in the southern part of the Timan-Pechora area. Neftegaz, geol.
i geofiz. no.4:39-42 '63 (MIRA 17:7)

1. Voyvozhneftegazrazvedka.

L 27390-66

ACC NR: AP6018385

SOURCE CODE: UR/0409/65/000/003/0433/0437

20
B

AUTHOR: Kropacheva, A. A.; Sazonov, N. V.

ORG: All-Union Chemical and Pharmaceutical Scientific Research Institute im. Ordzhonikidze, Moscow (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut)

TITLE: Reaction of 2-aminopyridines with phosphorus pentachloride

SOURCE: Khimiya geterotsiklicheskiy soedineniy, no. 3, 1965, 433-437

TOPIC TAGS: phosphorus, chloride, pyridine, phosphorylation, organic azo compound

ABSTRACT: The study of the interaction of 2-aminopyridines, substituted on the 4 or 5, and 4, 5 and 4,6 positions, with PCl_5 in boiling benzene is a continuation of the work on the phosphorylation of 2-aminopyridines in an effort to extend the phosphazo reaction of Kirsanov to obtain the dichlorides of pyrimidyl-2-aminophosphoric acids. The formation of phosphazo compounds or tetrachlorophosphoropyrimidines is dependent on the basicity of the initial amine. The former are formed when the basicity is weak, pK_a is less than 3.6; the latter, above 3.6. The formation of the above compounds was confirmed by their conversion into the dichlorides of pyrimidyl-2-aminophosphoric acid. Basicity measurements were made by I. V. Persianova. Orig. art. has: 1 table and 4 formulas. (JPRS)

SUB CODE: 07/ SUBM DATE: 04May64/ ORIG REF: 007

Card 1/1 CC

UDC: 547.853 + 542.95

SAZONOV, P., kand. sel'skokhoz. nauk

Plant protection in the German Federal Republic. Zashch. rast. ot
vred. i bol. 10 no.1:49-52 '65. (MIRA 18:3)

1. Vsesoyuznyy institut zashchity rasteniy.

SAZONOV, P. I.

Intestines - Obstructions

Case of volvulus of the greater omentum caused by serous cyst., Sov. med., no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

SAZONOV, P.I.

A rare case of Larrey's diaphragmatic hernia. Sov.med. 20 no.9:
88-89 S '56. (MLRA 9:11)

1. Glavnyy khirurg Tyumenskoy oblastnoy bol'nitsy.
(HERNIA, DIAPHRAGMATIC, case reports
surg., abdom. & transthoracic approach)

SAZONOV, P.I.

Spontaneous rupture of arterial aneurysms caused by gunshots. Sov.
med.21 no.3:126-127 Mr '57. (MIRA 10:7)

1. Glavny khirurg Tyumenskogo oblastnogo otdela zdravookhraneniya.
(ARTERIES, FEMORAL, aneurysm
spontaneous rupt. of gunshot aneurysm)

SAZONOV, P.I.

SAZONOV, P.I., zasluzhennyy vrach RSFSR; SHNITSER, L.Ya.

~~Report~~ on the work of the Tyumen' Surgical Society in 1956.
Khirurgiia 33 no.11:146-148 N '57. (MIRA 11:2)

1. Predsedatel khirurgicheskogo obshchestva Tyumeni (for Sazonov)
2. Sekretar' khirurgicheskogo obshchestva Tyumeni (for Shnitser)
(TYUMEN'--SURGERY--SOCIETIES)

ANFINOGENOV, V.S.; SAZONOV, P.P.

Simple cement distributor. Avt. dor. 28 no.9:24 S '65.
(MIRA 18:10)

1. Nachal'nik dorozhno-stroitel'nogo No.1 Upravleniya dorogi
Leningrad - Kiyev (for Anfinogenov). 2. Glavnyy inzhener
dorozhno-stroitel'nogo rayona No.1 Upravleniya dorogi Leningrad -
Kiyev (for Sazonov).

15

CT

The technical effectiveness of vapo-dust preparations.
P. Sannikov, Plant Protection (U. S. S. R.) 1956 No. 8,
51-55 (in English (4-5)).—The introduction of 5-15%
spindle oil into Ca arsenate allows of the reduction of in-
secticide doses by 25-45%. S. A. Karjala

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

5TH AND 6TH ORDERS

7TH AND 8TH ORDERS

9TH AND 10TH ORDERS

11TH AND 12TH ORDERS

13TH AND 14TH ORDERS

15TH AND 16TH ORDERS

17TH AND 18TH ORDERS

19TH AND 20TH ORDERS

21ST AND 22ND ORDERS

23RD AND 24TH ORDERS

25TH AND 26TH ORDERS

27TH AND 28TH ORDERS

29TH AND 30TH ORDERS

31ST AND 32ND ORDERS

33RD AND 34TH ORDERS

35TH AND 36TH ORDERS

37TH AND 38TH ORDERS

39TH AND 40TH ORDERS

41ST AND 42ND ORDERS

43RD AND 44TH ORDERS

45TH AND 46TH ORDERS

47TH AND 48TH ORDERS

49TH AND 50TH ORDERS

51ST AND 52ND ORDERS

53RD AND 54TH ORDERS

55TH AND 56TH ORDERS

57TH AND 58TH ORDERS

59TH AND 60TH ORDERS

61ST AND 62ND ORDERS

63RD AND 64TH ORDERS

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67TH AND 68TH ORDERS

69TH AND 70TH ORDERS

71ST AND 72ND ORDERS

73RD AND 74TH ORDERS

75TH AND 76TH ORDERS

77TH AND 78TH ORDERS

79TH AND 80TH ORDERS

81ST AND 82ND ORDERS

83RD AND 84TH ORDERS

85TH AND 86TH ORDERS

87TH AND 88TH ORDERS

89TH AND 90TH ORDERS

91ST AND 92ND ORDERS

93RD AND 94TH ORDERS

95TH AND 96TH ORDERS

97TH AND 98TH ORDERS

99TH AND 100TH ORDERS

SAZONOV, P. V.

SAZONOV, P. V. "Improvements of Ultra-sulfur Preparations,"
Itogi Nauchno-Issledovatel'skikh Rabot Vsesoiuznogo Instituta
Zashchity Rastenii za 1936 Goda, part 3, 1938, pp. 81-83.
423.92 L54I

So: Sira - Si - 90 - 53, 15 December 1953

JALONOV, P. V.

The new preparations DDT and GKhtSG for the control of vegetable plant pests Leningrad?
leningradskoe gazetno-zhurnal'noe i knizhnoe izd-vo, 1948. 53 p. (Nauka v pomoshch'
sel'skomu khoziaistvu)

SAZONOV, P.V., kand. sel'skokhozyaystvennykh nauk

Results of field tests of colloidal sulfur. Trudy VIZR no.1:194-197
'48. (MIRA 11:7)

(Sulfur--Physiological effect) (Red spider)

SHABANOVA, M.P., kand.sel'skokhozyaystvennykh nauk; CHIGAREV, G.A., kand.
sel'skokhozyaystvennykh nauk; SAZOMOV, P.V., kand.
sel'skokhozyaystvennykh nauk.

Use of arsenicals to control *Eurygaster integriceps*. Trudy VIZR
no.1:233-238 '48. (MIRA 11:7)
(*Eurygaster*) (Arsenic)

SAZONOV, P.V.

CA

Factors that decrease the efficiency of DDT and similar compounds. P. V. Sazonov and S. V. Andreev. Doklady Vsesoyuz. Akad. Nauk SSSR, No. 1, 1949, p. 1. The compounds were subjected to the rays of a 500-w. lamp emitting from the infrared to the violet and to the rays of a quartz lamp of the type PRK-2 that emitted from the green to the ultraviolet. To simulate the intensity of the sun's rays, the object was held 15-20 cm. away from the center of the source of the rays. House flies were used. The visible rays of the spectrum do not reduce the toxic strength of the DDT and similar compounds. The strength of the ultraviolet was equal to 600/1000 erg./sq. cm./sec. A 0.5% concn. of the active ingredients, at 7.5 g./sq. cm., on 3-hrs. exposure, loses 2% of its toxicity. The loss increases with temp., is less on murky days, when haze is present, or when dust or water vapor is present in the air. Direct sunlight is extremely deleterious and soil insects may be effectively handled by mixing the material into the soil. J. S. Ioffe

1. SAZONOV, P. V.

2. USSR (600)

7. "An Experiment in Applying Airplane Spraying of Wheat Sowings with Colloidal Sulfur Suspensions in order to Protect Them from Orange Rust Infection", Trudy Vsesoyuzn. In-ta Zashchity Rasteniy (Works of the All-Union Institute of Plant Protection), No 3, 1951, pp 98-103.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

0370 SAZONOV, I.V.

11233* Use of Mineral Oil for the Control of Pests. (Russian) P. V. Sazonov. Sad i Ogorod, Jan. 1952, p. 40-41. Discusses the use of mineral oil emulsions as dormant sprays for the control of scale and similar pests and as carriers for insecticides such as DDT.

SAZONOV, P. V., FEDOROVA, I. N.

Soils - Bacteriology

Action of D.D.T. and G.Kh.TS.G. on bacteria. Dokl.Ak.sel'khoz. no. 5 (1952)
Vsesoyuznyy N-I. Institut Zashchity Rasteniy red. 9 Feb. 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified

SAZONOV, P. V.

Plants, Effect of Insecticides on

Effect of benzene hexachloride on plants in relation to time of application and dosage, Dokl.
Ak. sel'khoz., 17, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

USSR / General and Specialized Zoology. Insects. Harmful Insects and Acarids. Chemical Methods in the Control of Harmful Insects and Acarids. P

Abs Jour : Ref Zhur - Biol., No 18, 1958, No. 82937

Author : Sazonov, P. V.; Bogdarina, A. A.; Gudkova, A. S.
Inst : The All-Union Institute for the Protection of Plants
Title : The Biological Activity of Aqueous Solutions of DDT and BHC

Orig Pub : Tr. Vses. in-ta zashchity rast., 1956, vyp. 7, 128-132

Abstract : For the extraction of aqueous solutions of DDT and BHC, triturating technical apparatuses were used to stir the chemicals with water at room temperature at different times; the liquid later was passed through a filter (the nature of the filter is not mentioned). At a two-hour stirring (100 g. of the preparation to one liter of water), the concentration of the solution BHC constituted 0.00028%;

Card 1/3

USSR / General and Specialized Zoology. Insects. Harmful Insects and Acarids. Chemical Methods in the Control of Harmful Insects and Acarids. P

Abs Jour : Ref Zhur - Biol., No 18, 1958, No. 82937

with water solutions or powders, prepared from them,
perished. -- B. B. Kobrin

Card 3/3

SAZONOV, P. V. (VIZR, Leningrad)

"Study of Organophosphorus Insecticides of Intra-Plant Action for the Protection of Crops from Insect Pests" (Issledovaniye fosfororganicheskikh insektitsidov vnutrirastitel'nogo deystviya dlya zashchity posesov ot brednoy cherepashki)

Chemistry and Uses of Organophosphorous Compounds
(Khimiya i primeneniye fosfororganicheskikh soedineniy),
Trudy of First Conference, 8-10 December 1955, Kazan,
PP. Published by Kazan Affil. AS USSR, 1957

401-407

SAGUNOV, I. V.

"Study of Organophorous Insecticide with Intraplant
Action for Protection of Crops from Insect Pest, "
paper presented at En First Conference on Phosphorous Compounds,
Kazan, 2-10 Dec 56

SO: B-3,084,841

Sazonov, P.V.

USSR/Chemical Technology - Chemical Products and Their Application. Pesticides.

I-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2314

Author : Sazonov, P.V., Bogdarina, A.A., Gudkova, A .S.

Inst : All-Union Institute of Plant Protection

Title : Biological Activity of Aqueous Solutions of DDT and HCCH.

Orig Pub : Tr. Vses. in-ta zashchity rast., 1956, No 7, 128-132

Abstract : A study was made of the solubility in water of technical DDT and hexachloro-cyclohexane, and of the biological activity of the aqueous solutions of these preparations. Solubility of DDT is less than $1 \cdot 10^{-4}\%$; kinetics of solubility of HCCH at 20° (listing solubility in $\%$, duration of stirring in hours): $2.8 \cdot 10^{-5}$, 2; $4 \cdot 10^{-4}$, 4; $7.6 \cdot 10^{-4}$, 6; $9.3 \cdot 10^{-4}$, 8; $1.52 \cdot 10^{-3}$, 12; $2.5 \cdot 10^{-3}$, 24; $3.18 \cdot 10^{-3}$, 36. HCCH at a concentration of

Card 1/2

Sazonov, P.V.

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Cereal Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49562

Author : Sazonov P.V.

Inst : AS USSR

Title : The Study of Phosphoro-organic Systemic Insec-
ticides with Intraplant Action for the Pro-
tection of Crops from Injurious Eurygasters.

Orig Pub : V sb.: Khimiya i primeneniye fosfororgan. soye-
dinoniy. M., AN SSSR, 1957, 401-407

Abstract : The spraying of winter wheat with octamethyl
(4.5 and 8 kg/ha.) before the beginning of egg-
laying led to the destruction on the 13th day of
31.1% and 78.6% of the bugs, and spraying at the
beginning of egg-laying destroyed 80% and 100%
of the bugs. Spraying with morcaptophos* (4.5
and 6 kg/ha) in the same periods led to the des-
truction in the first 4 days of 51.6% and 64.7%,

Card : 1/2

SAZONOV, P.V.

Prospects of protecting field crops from pests in the Syrian area
of the United Arab Republic. Zashch.rast.ot vred. 1 vol. 3 no.6: 52
N-D ' 58. (MIRA 11:12)

(Syria--Plants, Protection of)

SAZONOV, P.V., kand. sel'skokhozyaystvennykh nauk.

DDT as a means of protecting crops from the shield bug *Eurygaster*
integriceps Put. Trudy VIZR no.9:145-196 '58. (MIRA 12:1)
(*Eurygaster*) (DDT (Insecticide))

SAZONOV, P.V., kand. sel'skokhozyaystvennykh nauk.

Work of the first international conference on the control of
Burygaster integriceps Put. Trudy VIZR no.9:363-370 '58.
(MIRA 12:1)

(Burygaster)

STARK, V.N., doktor sel'skokhoz.nauk; SAZONOV, P.V., kand.sel'skokhoz.nauk

"Present-day problems of entomology". Reviewed by V.N.Stark,
P.V. Sazonov. Zashch. rast. ot vred. 1 bol. 5 no.4:59 Ap '60.
(Entomology) (MIRA 13:9)

PANTELEYEVA, A.M.; SAZONOV, P.V., kand.sel'skokhozyaystvennykh nauk

Using granulated insecticides for the control of European corn
borers on fields where corn is grown for grain. Agrobiologiya
no. 3:442-446 My-Je '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity
rasteniy, Leningrad.

(European corn borer)

SAZONOV, P. V.

90. ANTIBACTERIAL ACTION OF ORGANOPHOSPHORUS COMPOUNDS. S. M. Vyacheslav et al.	552
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94. EFFECT OF ALKYL ESTERS OF DIMETHYL- AND DIPROPYLPHOSPHINIC ACIDS ON UTERINE CON- TRACTION (PREPARATIONS 131 AND 183). N. A. Korchagina	

PLANT PROTECTION SECTION

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96. BIOLOGICAL ACTION OF ORGANOPHOSPHORUS COMPOUNDS. A. M. Alekseyev and T. E. Izotova	569
97. COMPARATIVE TOXICOLOGICAL PROPERTIES OF TETRATHYL DITHIOPYROPHOSPHATE AND DIMETHYL DITHIYL DITHIOPYROPHOSPHATE. I. D. Neklenov et al.	578
98. EFFECT OF PREPLANTING TREATMENT OF CORN WITH ORGANOPHOSPHORUS COMPOUNDS ON THE GROWTH AND DEVELOPMENT OF THE PLANTS. T. E. Izotova et al.	583
99. ACTION OF ORGANOPHOSPHORUS COMPOUNDS ON SOIL MICROFLORA. G. M. Gerasova et al.	588
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101. ORGANOPHOSPHORUS ARENOLS FOR CONTROL OF AGRICULTURAL PESTS. A. I. Sidorov and P. I. Mitrofanov	597
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104. TESTS RESULTS ON M-81 PREPARATION IN CONTROL OF SUCKING PESTS OF FRUIT AND DECORATIVE PLANTS. M. P. Shabatova and L. F. Efimova	614
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106. SORPTION OF ORGANOPHOSPHORUS INSECTICIDE VAPORS BY ACTIVATED CARBON. Yu. I. Kuznetsov and M. E. Poddinova	625

*Khimiya i Prikladnye Vsesoyuznoshchish Soyedineniy (Chemistry and Application
of Organophosphorus Compounds)* A. Ye. Arbutov, Ed. publ. by Enzan' Affil, Acad. Sci.
USSR, Moscow, 1962 636pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of
Organophosphorus Compounds.

SAZONOV, P.V.

Results of testing new insecticides during 1961. Zashch.rast.ot
vred.i bol. 7 no.6:34-36 Je '62. (MIRA 15:12)

1. Rukovoditel' laboratorii insektitsidov Vsesoyuznogo instituta
zashchity rasteniy.
(Insecticides)

SAZONOV, P.V.

In memory of Mefodii Il'ich Kosobutskii, 1896-1964. Ent. obozr. 43 no.3:
737-742 '64. (MIRA 17:10)

SAZONOV, P.V.; KOBRIN, B.B.

Strategy of plant pest control by chemicals. Trudy VIZR
no.17:21-48 '63. (MIRA 18:9)

SAZONOV, R. M.

Dissertation: "Calculation of Plates on an Elastic Foundation." Cand Tech Sci,
Kiev Construction Engineering Inst, Kiev, 1954. (Referativnyy Zhurnal-Mekhanika,
Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

SOV/97-58-7-10/10

AUTHORS: Semenov, P. I. and Sazonov, R. M. (Cands. Tech. Sc.)

TITLE: Approximate Calculation of Constructions of Floors and Transverse Diaphragm Panels of Skeletonless Buildings Subjected to Horizontal Loading. (Priblizhennyi raschet konstruktsiy perekrytiy i poperechnykh diafragm panel'nykh beskarkasnykh zdaniy na gorizonta'l'nyu nagruzku)

PERIODICAL: Beton i Zhelezobeton, 1958, Nr.7. pp. 278 - 280. (USSR).

ABSTRACT: Skeletonless panel construction of building is actually based on "box units" assembled from separate reinforced concrete panels which are joined together generally by welding and sometimes by bolting. There is no precise calculation of this method of construction, and only approximate methods are used. The calculation of floor panels and longitudinal walls subjected to vertical loading is carried out by the ordinary method and is not dealt with in this article. The pressures caused by wind are taken up by external panels of longitudinal walls, are transferred through floors on to transverse (diaphragm) walls and finally to foundations. The longitudinal panels, subjected to wind, are calculated as ordinary beams. Floors consisting of separate panels are joined together by welding in two points. Supports of

Card 1/3

SOV/97-58-7-10/10

Approximate Calculations of Constructions of Floors and Transverse Diaphragm Panels of Skeletonless Buildings Subjected to Horizontal Loading.

these floor slabs are the cross (diaphragm) panels. This system of construction is regarded as statically determined under loading when the reactions could be defined from the equation of equilibrium. Longitudinal (bending) stresses and transverse stresses in the joints are determined by given formulae (Fig.1) Checking of stresses in the critical sections of the floor could be carried out in the same way as in the case of a simple beam. During this checking, the hypothesis of slender sections and increased fibre stresses occurring in high beams (panel beams) could be applied (see P. M. Varvak's "Explanation and Application of the Method for the Calculation of 'lamels'" published by AS USSR, 1949, No.1). Table 1 gives coefficients of the increased fibral stresses; Fig.2 illustrates bending moment diagram, diagram of shear stress and their distribution on the slabs.

Card 2/3

SOV/97-59-7-10/10

Approximate Calculations of Constructions of Floors and Transverse Diaphragm Panels of Skeletonless Buildings Subjected to Horizontal Loading.

(see article of M. I. Dlugach published in Journal "Prikladna Mekhanika" Vol. 1955, Kyev). Example of calculation of slab and diaphragm is presented. There are 3 Figures and 3 Tables.

1. Structures—Design
2. Structures—Stresses
3. Mathematics

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